

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021220\  
 Data File : VX014934.D  
 Acq On : 12 Feb 2020 18:24  
 Operator : JC/SP  
 Sample : L1432-08DL 10X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OD-COMPDL

Quant Time: Feb 13 05:07:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 451988   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 711623   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 682678   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 378216   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 255928   | 50.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.34% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 213293   | 48.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.50%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 856282   | 51.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.56% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 331668   | 55.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.26% |          |

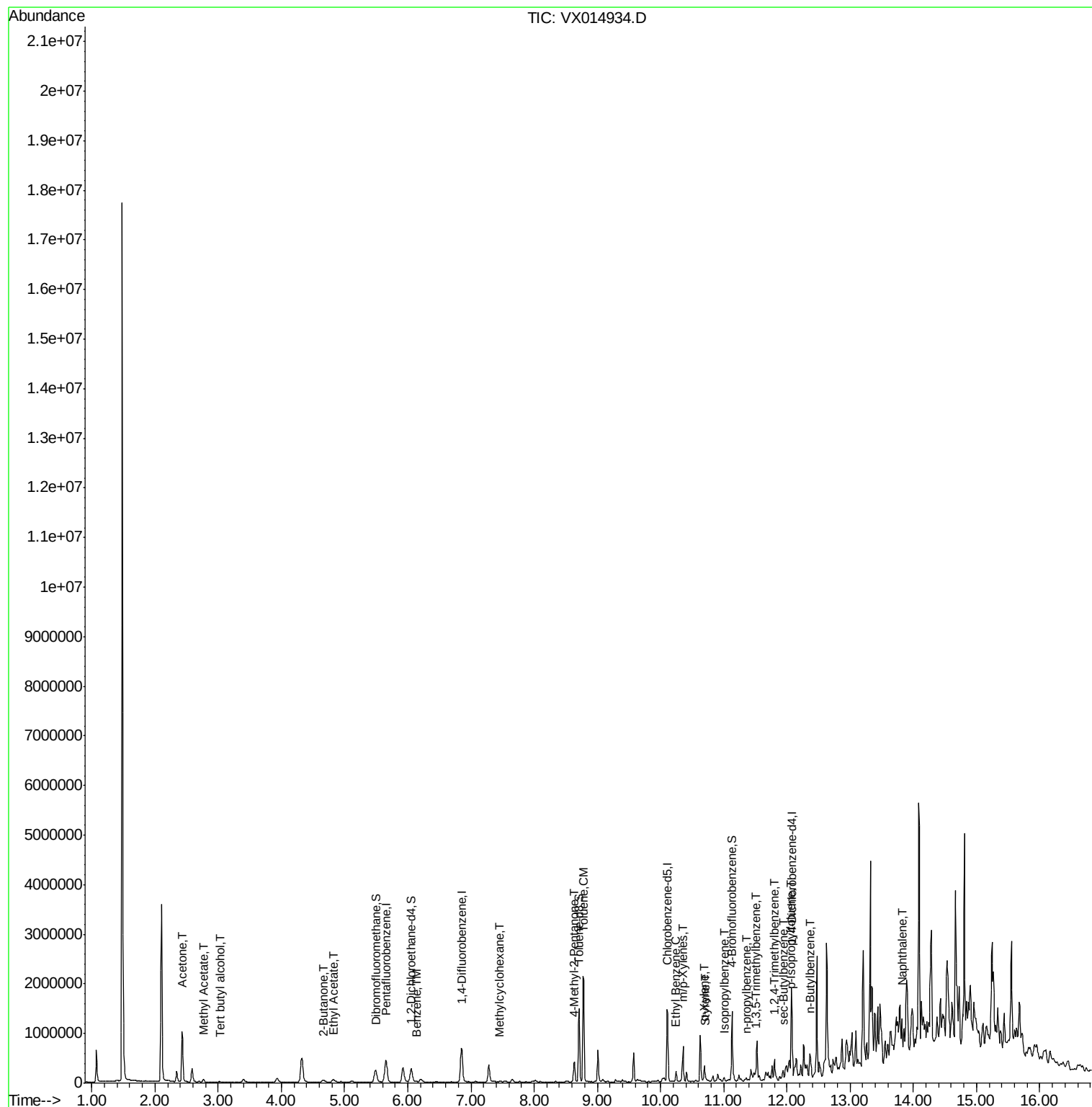
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol     | 3.03  | 59   | 7252     | 8.052   | ug/l # | 94     |
| 16) Acetone                | 2.43  | 43   | 1053627  | 390.665 | ug/l   | 97     |
| 18) Methyl Acetate         | 2.76  | 43   | 63386    | 12.338  | ug/l   | 100    |
| 25) 2-Butanone             | 4.66  | 43   | 56387    | 16.237  | ug/l   | 99     |
| 37) Ethyl Acetate          | 4.82  | 43   | 87038    | 13.109  | ug/l   | 97     |
| 39) Methylcyclohexane      | 7.45  | 83   | 3517     | 0.442   | ug/l # | 74     |
| 40) Benzene                | 6.14  | 78   | 6485     | 0.341   | ug/l   | 98     |
| 51) 4-Methyl-2-Pentanone   | 8.64  | 43   | 247300   | 37.394  | ug/l   | 99     |
| 52) Toluene                | 8.78  | 92   | 818307   | 67.740  | ug/l   | 100    |
| 67) Ethyl Benzene          | 10.25 | 91   | 116887   | 4.964   | ug/l   | 100    |
| 68) m/p-Xylenes            | 10.36 | 106  | 172940   | 19.064  | ug/l   | 99     |
| 69) o-Xylene               | 10.70 | 106  | 65979    | 7.566   | ug/l   | 97     |
| 70) Styrene                | 10.71 | 104  | 17734    | 1.202   | ug/l # | 44     |
| 73) Isopropylbenzene       | 11.01 | 105  | 12936    | 0.545   | ug/l   | 94     |
| 78) n-propylbenzene        | 11.35 | 91   | 37487    | 1.367   | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 11.50 | 105  | 42434    | 2.141   | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 11.80 | 105  | 164687   | 8.246   | ug/l   | 99     |
| 85) sec-Butylbenzene       | 11.94 | 105  | 24924    | 1.069   | ug/l   | 88     |
| 86) p-Isopropyltoluene     | 12.06 | 119  | 30137    | 1.381   | ug/l   | 95     |
| 89) n-Butylbenzene         | 12.38 | 91   | 61092    | 3.127   | ug/l # | 47     |
| 95) Naphthalene            | 13.83 | 128  | 71184    | 3.114   | ug/l # | 83     |

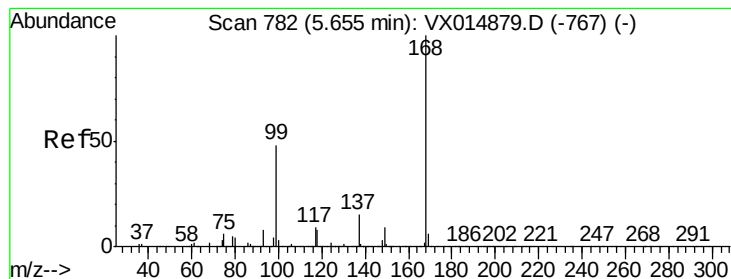
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 10 12:09:20 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014934.D

Acq: 12 Feb 2020 18:24

Instrument :

MSVOA\_X

ClientSampleId :

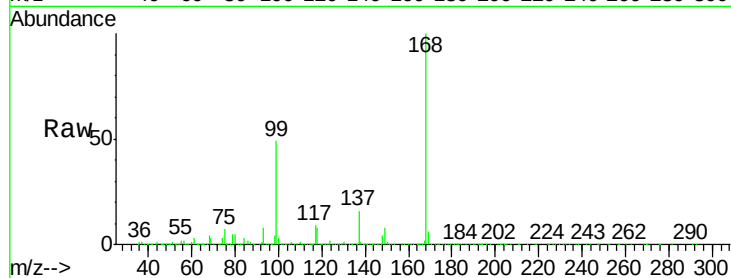
OD-COMPD

Tot Ion:168 Resp: 451988

Ion Ratio Lower Upper

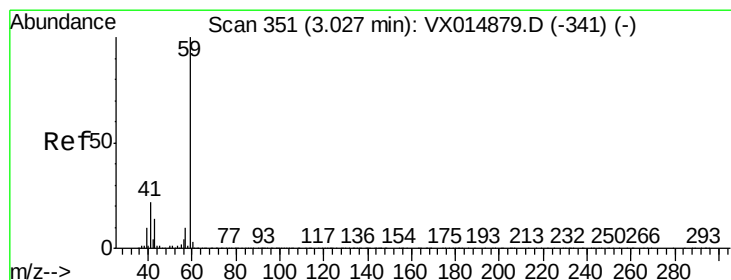
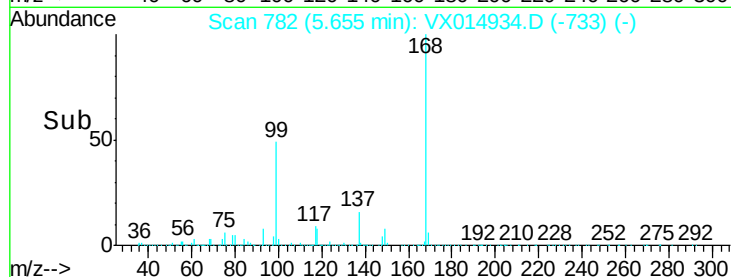
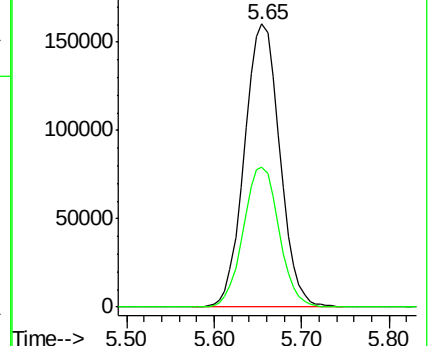
168 100

99 49.4 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 8.052 ug/l

RT: 3.03 min Scan# 351

Delta R.T. 0.00 min

Lab File: VX014934.D

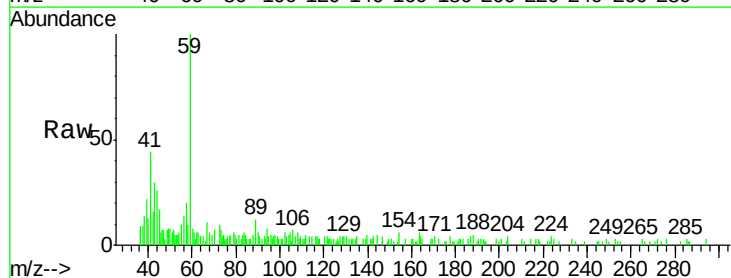
Acq: 12 Feb 2020 18:24

Tgt Ion: 59 Resp: 7252

Ion Ratio Lower Upper

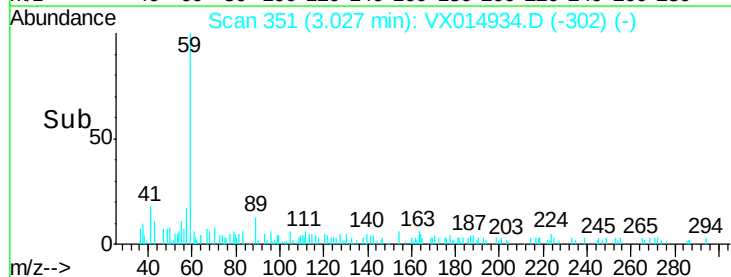
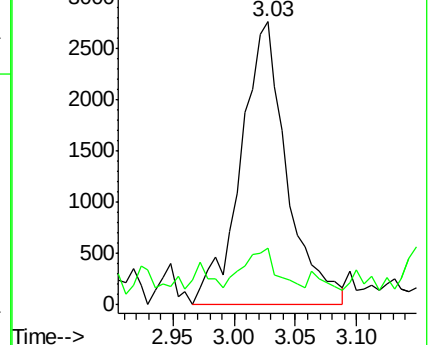
59 100

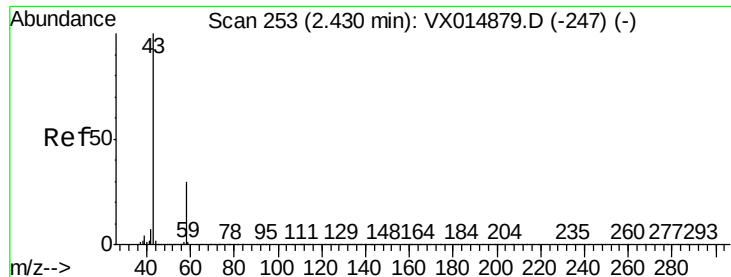
57 12.6 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

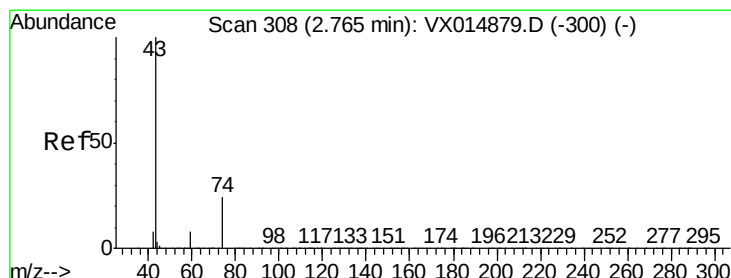
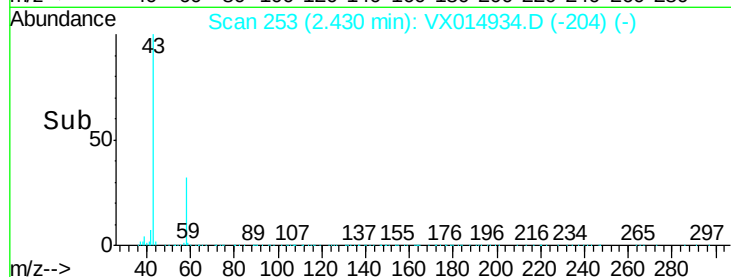
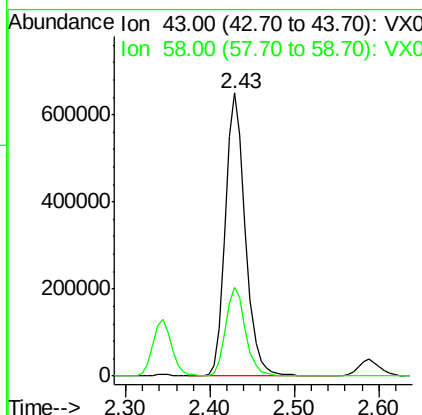
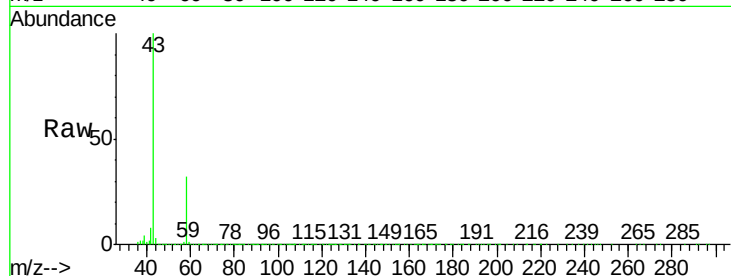




#16  
Acetone  
Concen: 390.665 ug/l  
RT: 2.43 min Scan# 253  
Delta R.T. 0.00 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

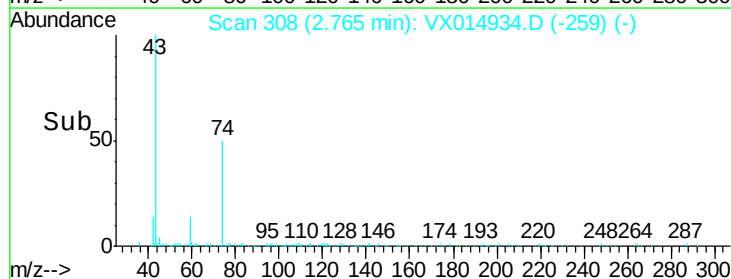
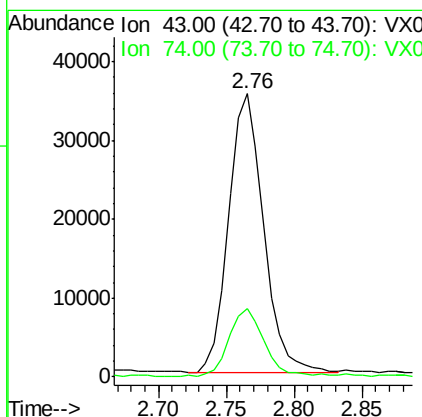
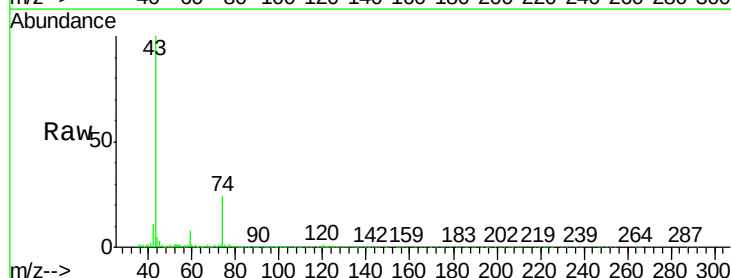
Instrument :  
MSVOA\_X  
ClientSampleId :  
OD-COMPDL

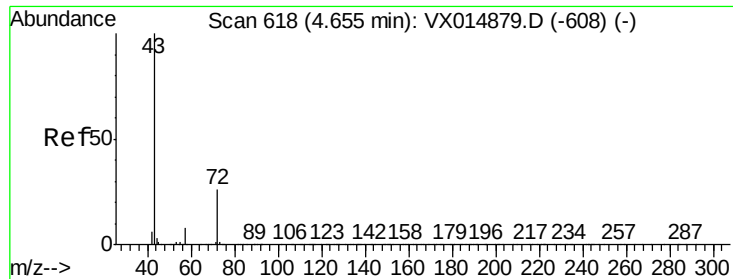
Tot Ion: 43 Resp: 1053627  
Ion Ratio Lower Upper  
43 100  
58 31.5 24.1 36.1



#18  
Methyl Acetate  
Concen: 12.338 ug/l  
RT: 2.76 min Scan# 308  
Delta R.T. 0.00 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

Tgt Ion: 43 Resp: 63386  
Ion Ratio Lower Upper  
43 100  
74 24.0 19.4 29.0

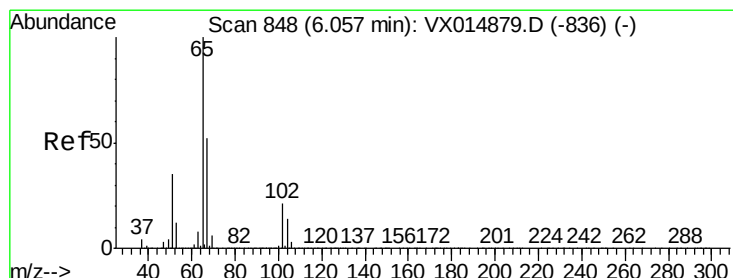
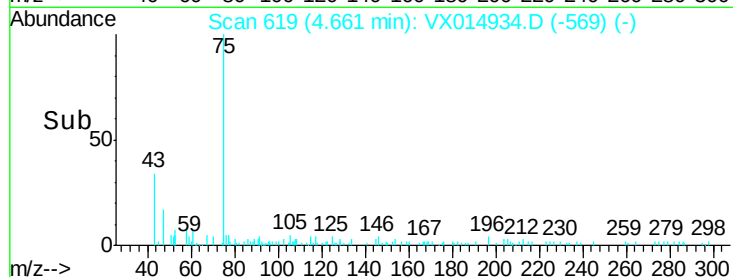
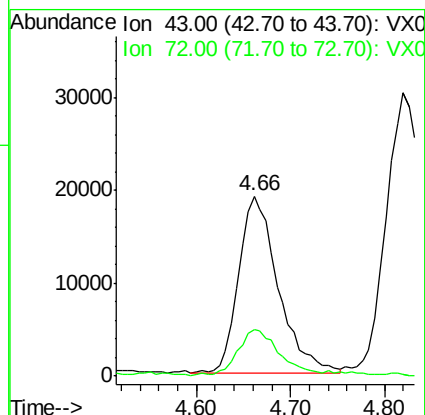
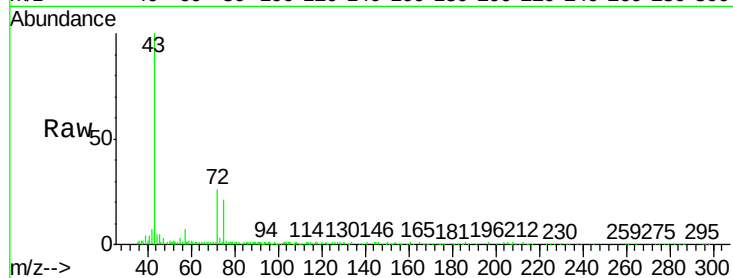




#25  
2-Butanone  
Concen: 16.237 ug/l  
RT: 4.66 min Scan# 619  
Delta R.T. 0.01 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

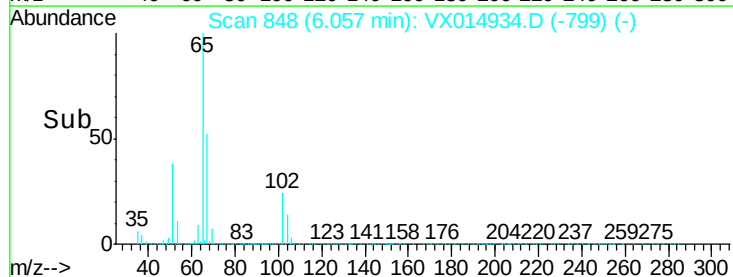
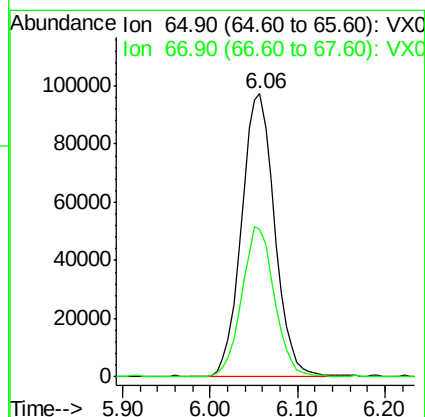
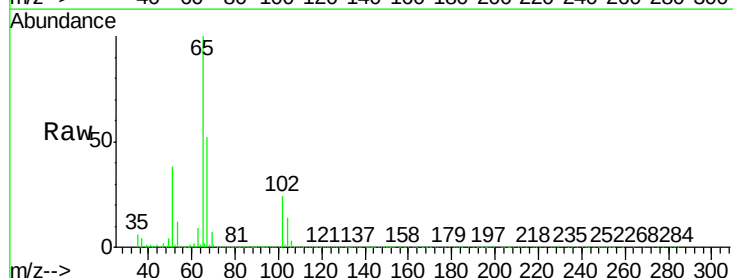
Instrument :  
MSVOA\_X  
ClientSampleId :  
OD-COMPD

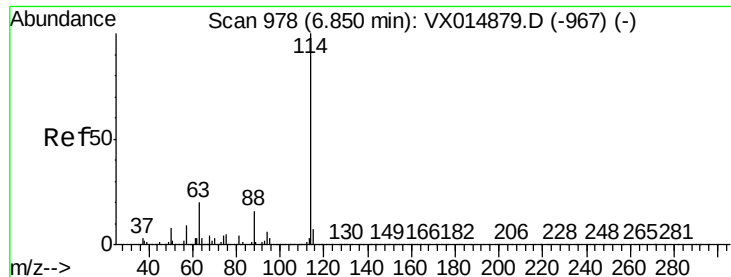
Tot Ion: 43 Resp: 56387  
Ion Ratio Lower Upper  
43 100  
72 25.7 21.0 31.6



#33  
1,2-Dichloroethane-d4  
Concen: 50.172 ug/l  
RT: 6.06 min Scan# 848  
Delta R.T. 0.00 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

Tgt Ion: 65 Resp: 255928  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014934.D

Acq: 12 Feb 2020 18:24

Instrument :

MSVOA\_X

ClientSampleId :

OD-COMPDL

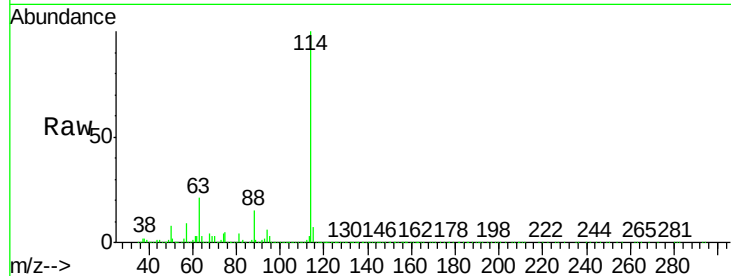
Tot Ion:114 Resp: 711623

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.2

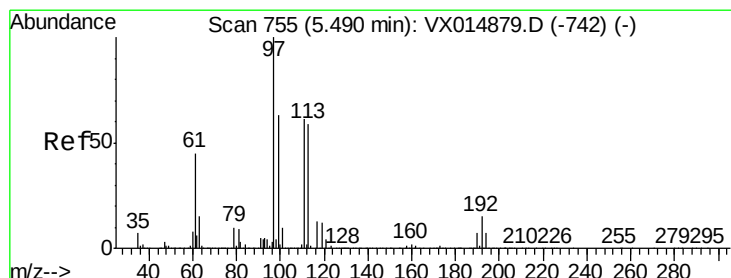
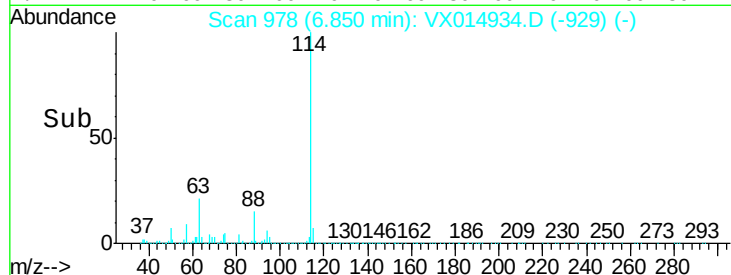
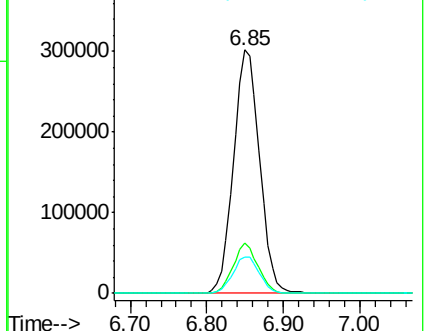
88 15.0 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.754 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014934.D

Acq: 12 Feb 2020 18:24

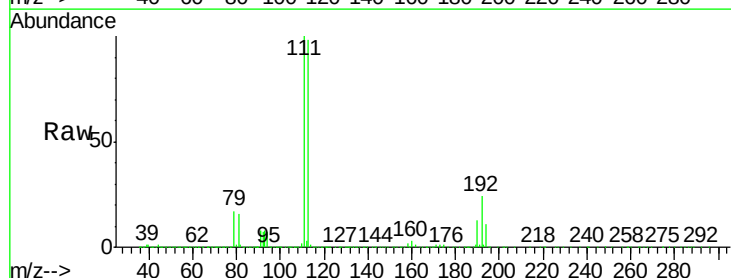
Tgt Ion:113 Resp: 213293

Ion Ratio Lower Upper

113 100

111 101.5 82.4 123.6

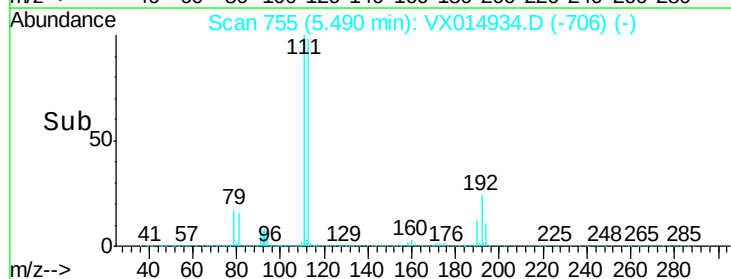
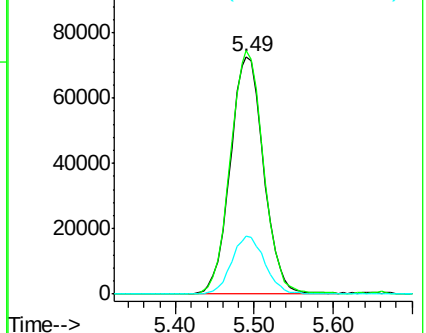
192 24.6 19.1 28.7

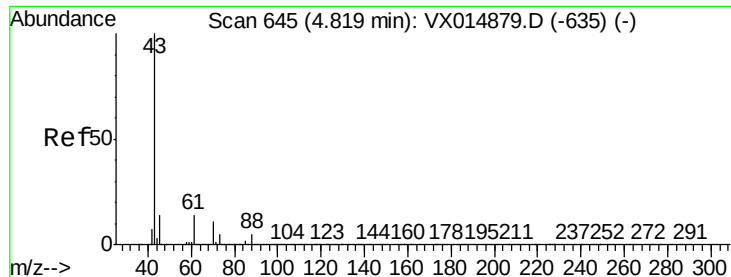


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

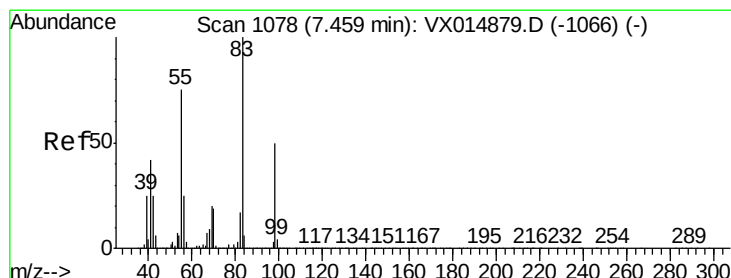
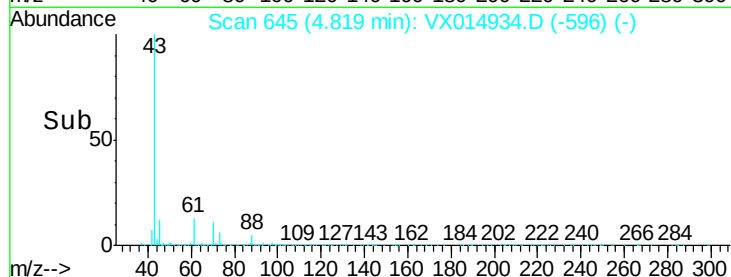
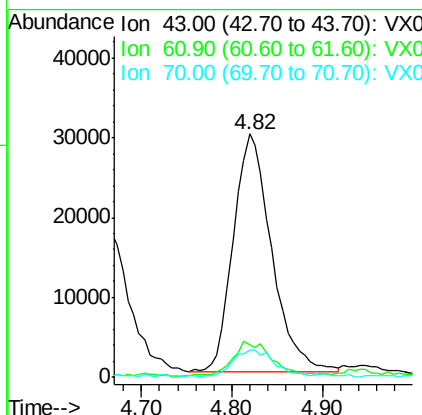
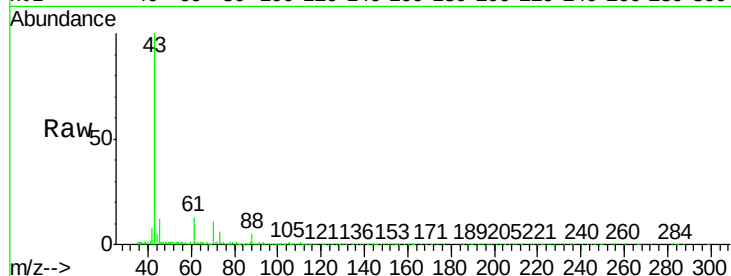




#37  
Ethyl Acetate  
Concen: 13.109 ug/l  
RT: 4.82 min Scan# 645  
Delta R.T. 0.00 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

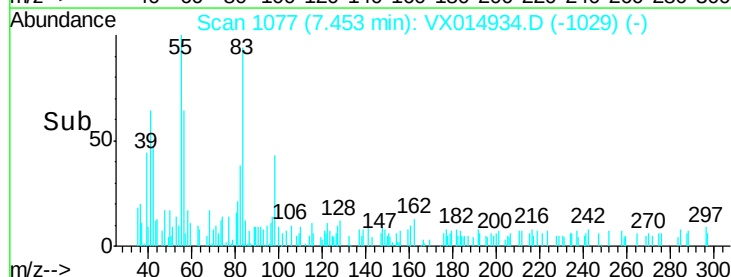
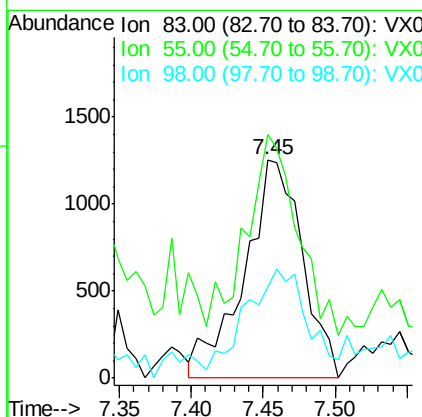
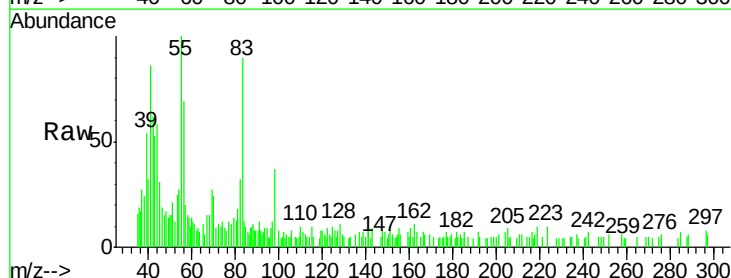
Instrument :  
MSVOA\_X  
ClientSampleID :  
OD-COMPD

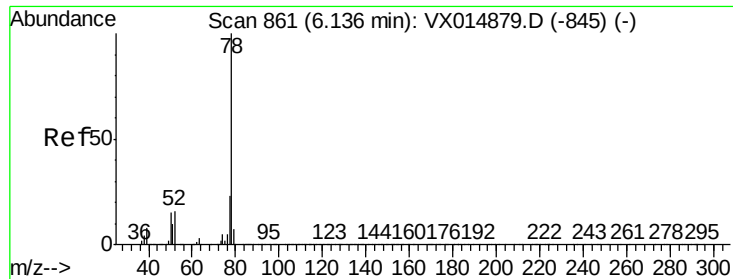
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 14.9  | 10.9  | 16.3  |
| 70      | 12.1  | 8.7   | 13.1  |



#39  
Methylcyclohexane  
Concen: 0.442 ug/l  
RT: 7.45 min Scan# 1077  
Delta R.T. -0.01 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 99.1  | 60.0  | 90.0# |
| 98      | 33.4  | 39.6  | 59.4# |





#40

Benzene

Concen: 0.341 ug/l

RT: 6.14 min Scan# 862

Delta R.T. 0.01 min

Lab File: VX014934.D

Acq: 12 Feb 2020 18:24

Instrument :

MSVOA\_X

ClientSampled :

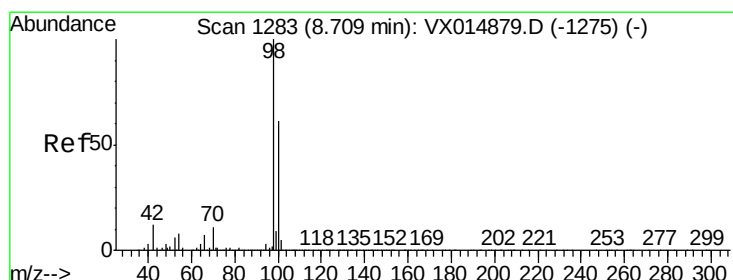
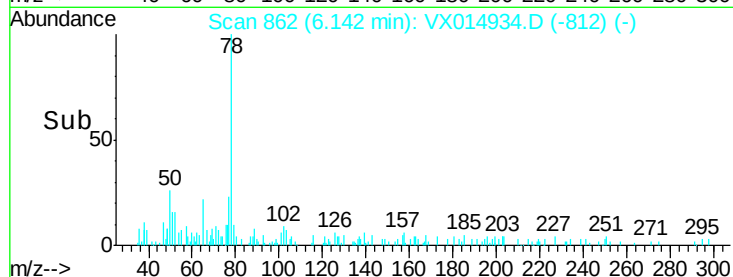
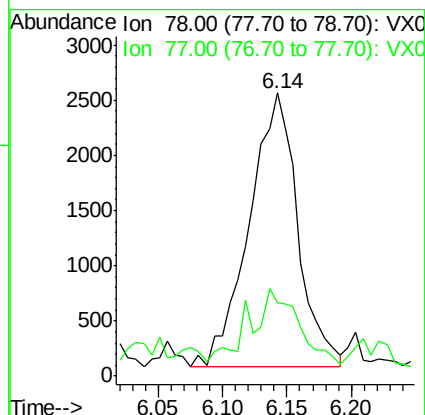
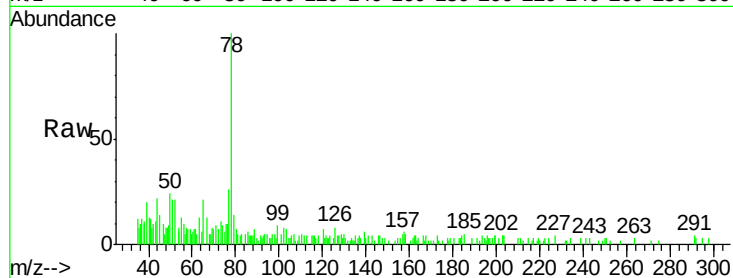
OD-COMPD

Tot Ion: 78 Resp: 6485

Ion Ratio Lower Upper

78 100

77 22.5 18.8 28.2



#50

Toluene-d8

Concen: 51.276 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014934.D

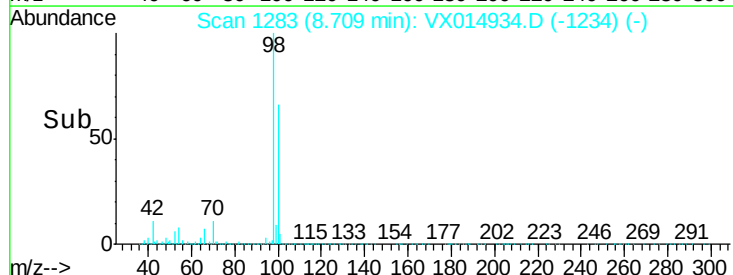
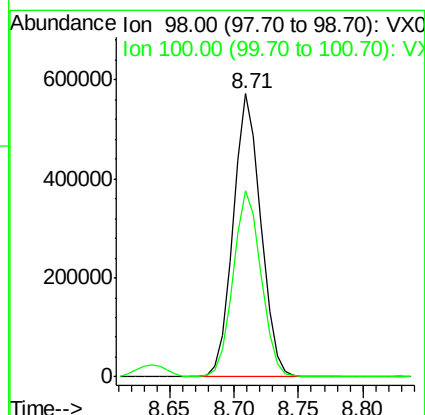
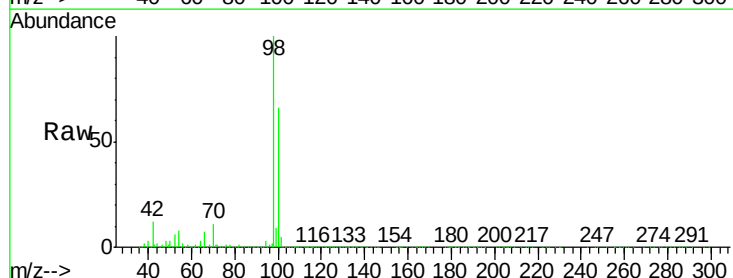
Acq: 12 Feb 2020 18:24

Tgt Ion: 98 Resp: 856282

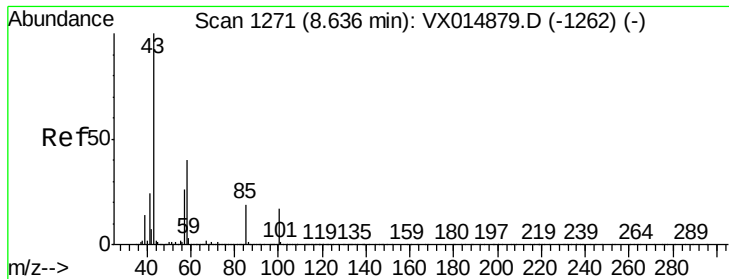
Ion Ratio Lower Upper

98 100

100 66.5 52.4 78.6







#51

4-Methyl-2-Pentanone

Concen: 37.394 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX014934.D

Acq: 12 Feb 2020 18:24

Instrument :

MSVOA\_X

ClientSampleId :

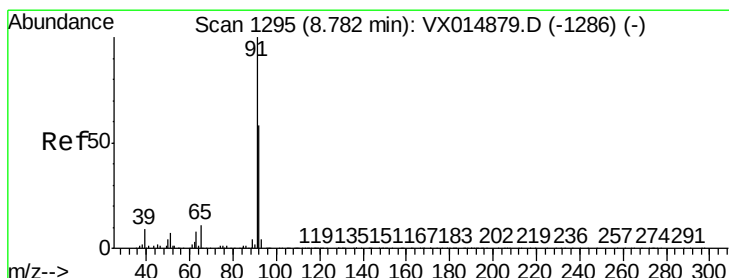
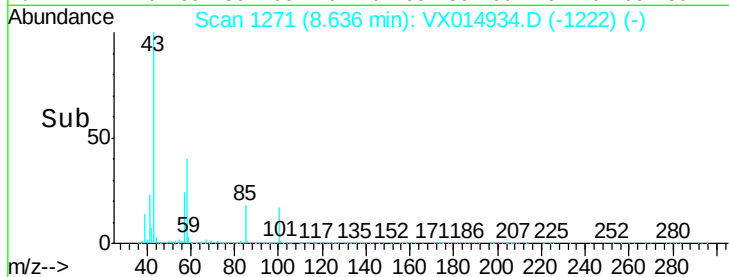
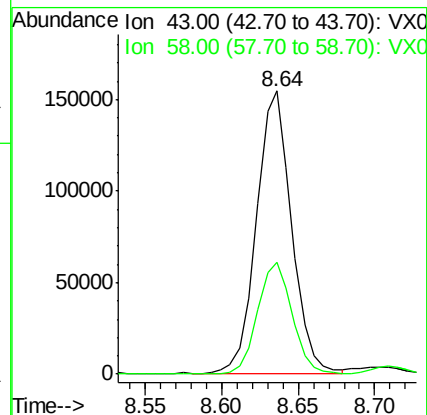
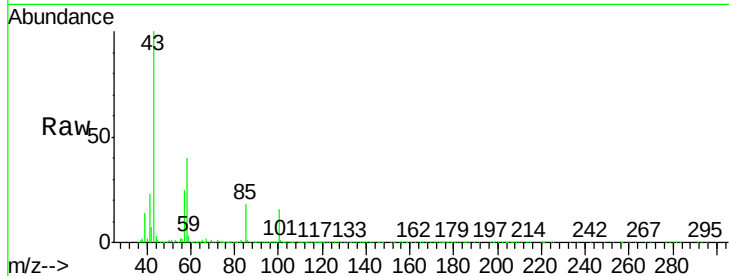
OD-COMPDL

Tot Ion: 43 Resp: 247300

Ion Ratio Lower Upper

43 100

58 39.0 31.9 47.9



#52

Toluene

Concen: 67.740 ug/l

RT: 8.78 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VX014934.D

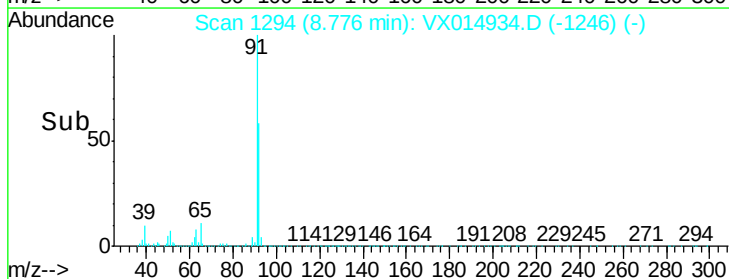
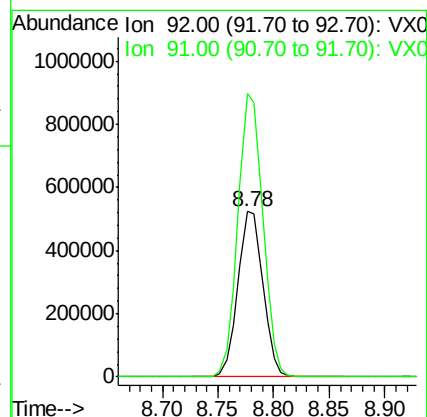
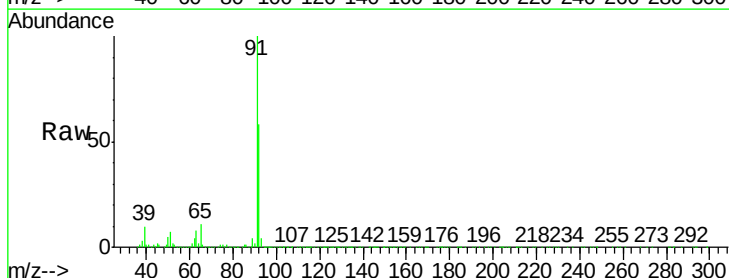
Acq: 12 Feb 2020 18:24

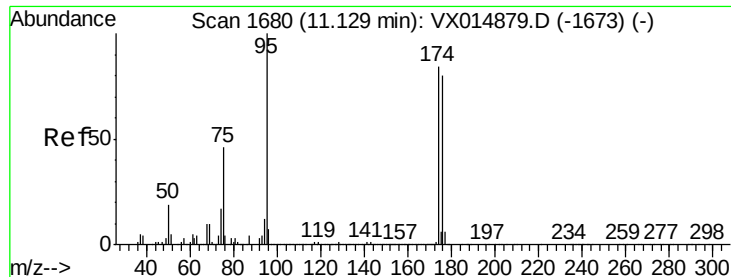
Tgt Ion: 92 Resp: 818307

Ion Ratio Lower Upper

92 100

91 171.1 137.0 205.4

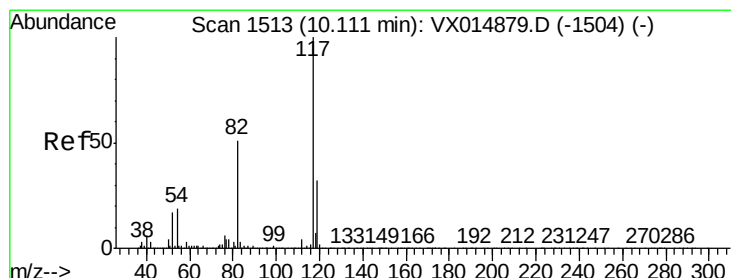
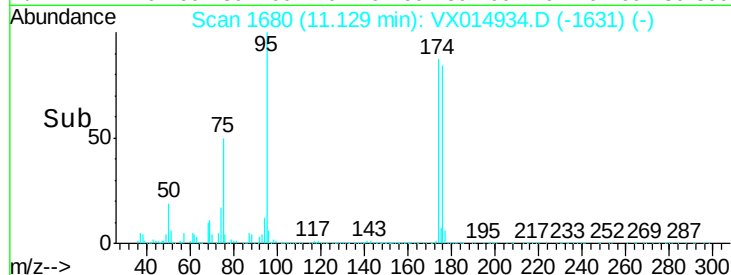
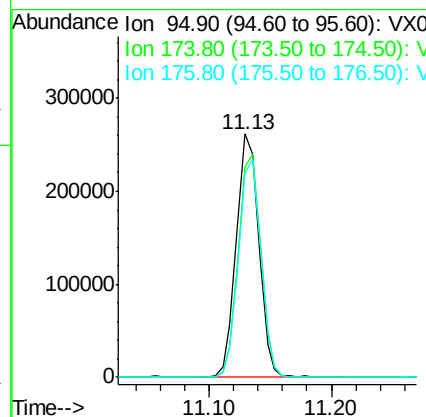
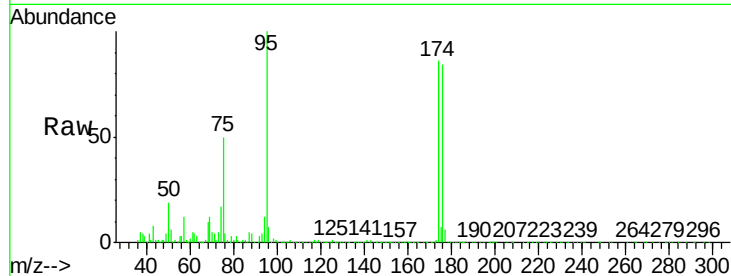




#62  
4-Bromofluorobenzene  
Concen: 55.134 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. 0.00 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

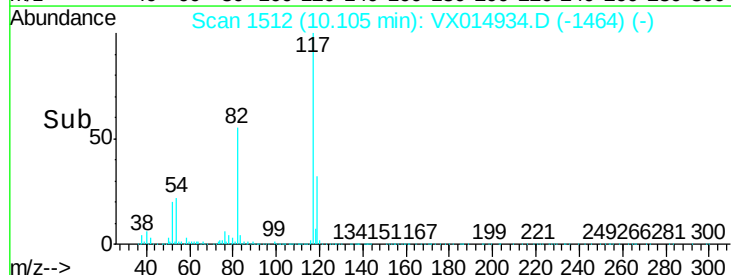
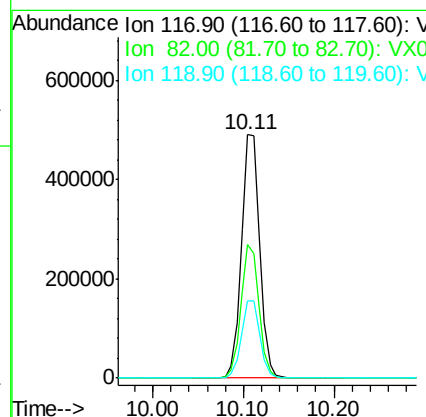
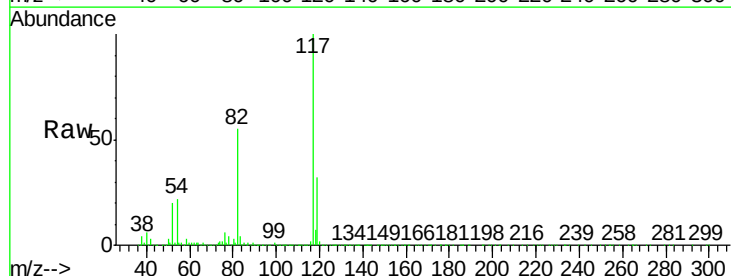
Instrument :  
MSVOA\_X  
ClientSampleId :  
OD-COMPD

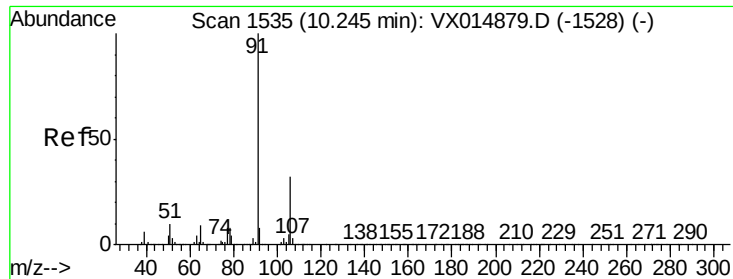
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 92.0  | 0.0   | 183.0 |
| 176     | 89.4  | 0.0   | 178.0 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1512  
Delta R.T. -0.01 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.1  | 40.5  | 60.7  |
| 119     | 31.6  | 25.8  | 38.6  |

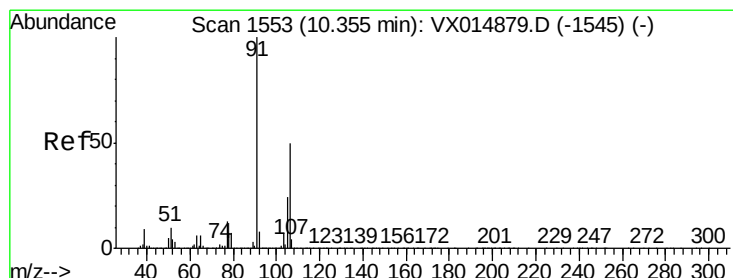
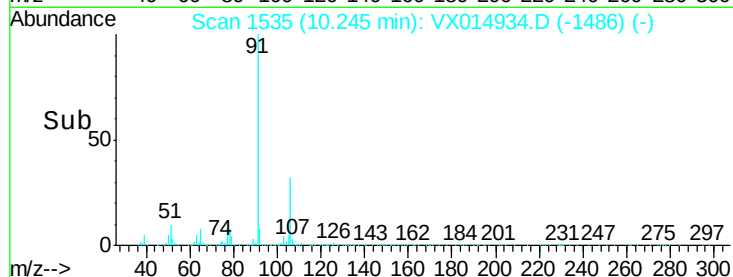
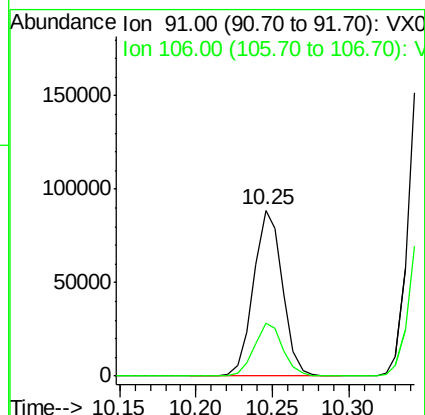
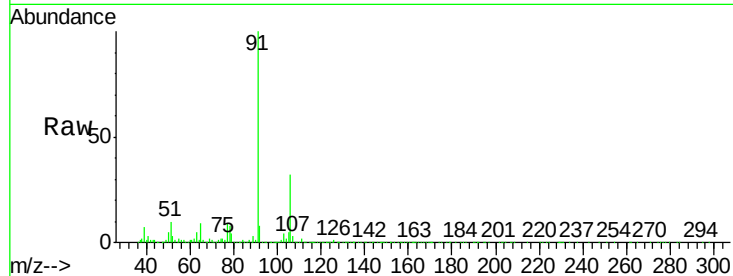




#67  
Ethyl Benzene  
Concen: 4.964 ug/l  
RT: 10.25 min Scan# 1535  
Delta R.T. 0.00 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

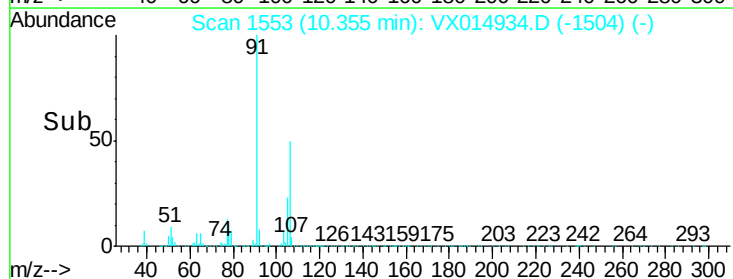
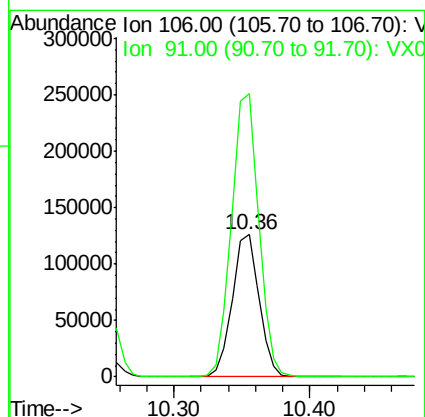
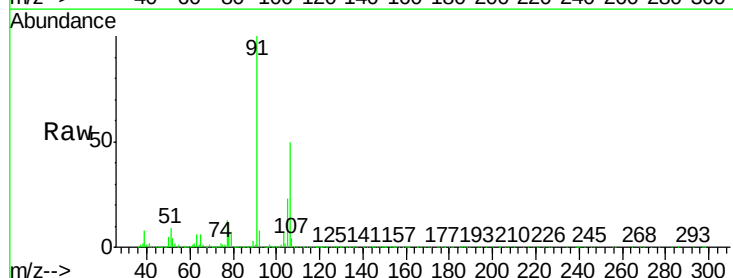
Instrument :  
MSVOA\_X  
ClientSampleID :  
OD-COMPD

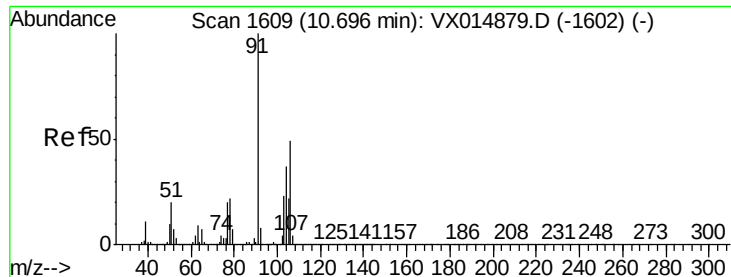
Tot Ion: 91 Resp: 116887  
Ion Ratio Lower Upper  
91 100  
106 31.8 25.3 37.9



#68  
m/p-Xylenes  
Concen: 19.064 ug/l  
RT: 10.36 min Scan# 1553  
Delta R.T. 0.00 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

Tgt Ion: 106 Resp: 172940  
Ion Ratio Lower Upper  
106 100  
91 201.9 160.6 240.8

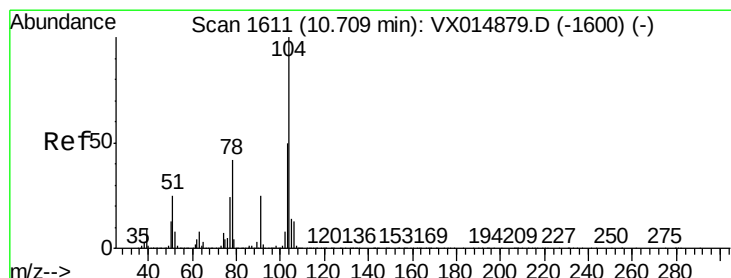
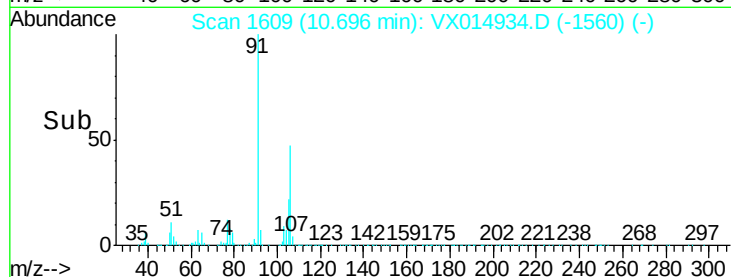
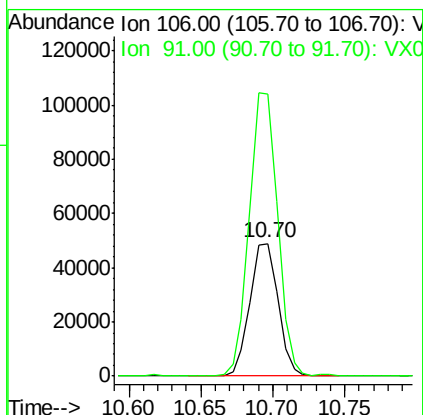
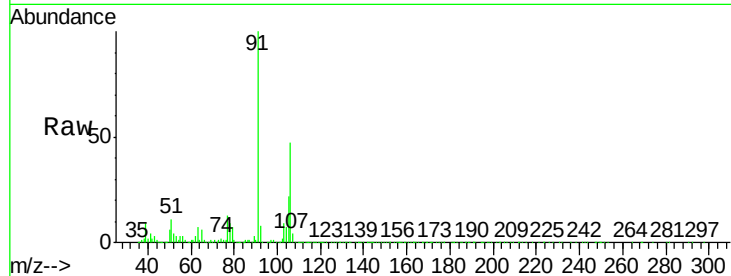




#69  
o-Xylene  
Concen: 7.566 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. 0.00 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

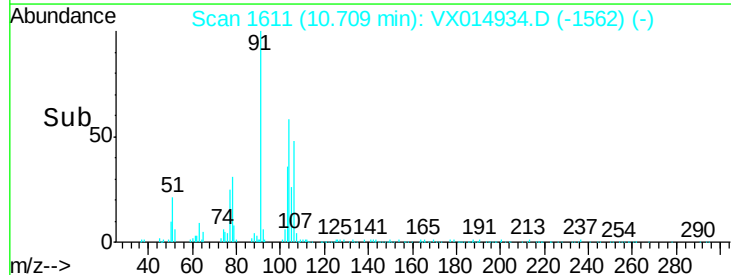
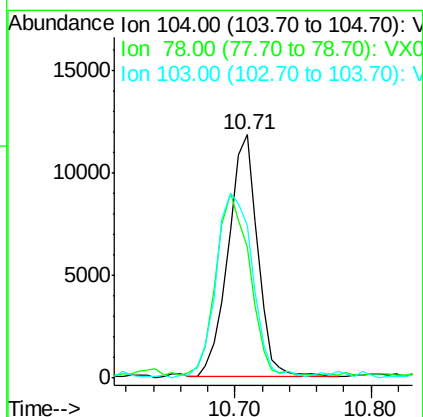
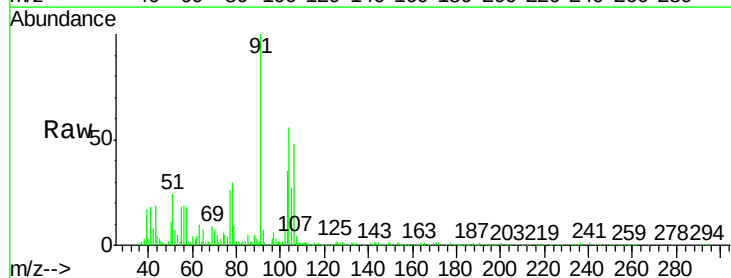
Instrument :  
MSVOA\_X  
ClientSampleID :  
OD-COMPDL

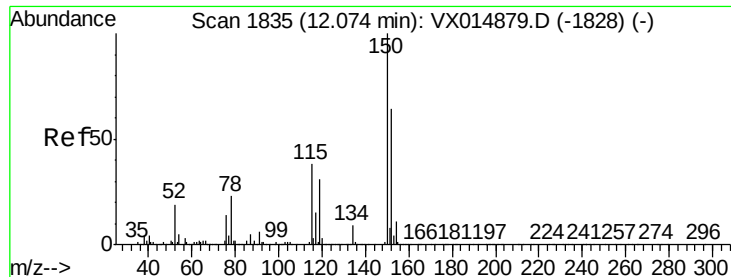
Tot Ion:106 Resp: 65979  
Ion Ratio Lower Upper  
106 100  
91 214.5 105.1 315.3



#70  
Styrene  
Concen: 1.202 ug/l  
RT: 10.71 min Scan# 1611  
Delta R.T. 0.00 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

Tgt Ion:104 Resp: 17734  
Ion Ratio Lower Upper  
104 100  
78 85.7 39.0 58.4#  
103 95.5 43.4 65.0#



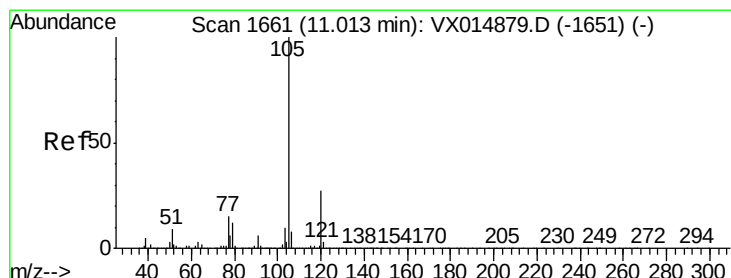
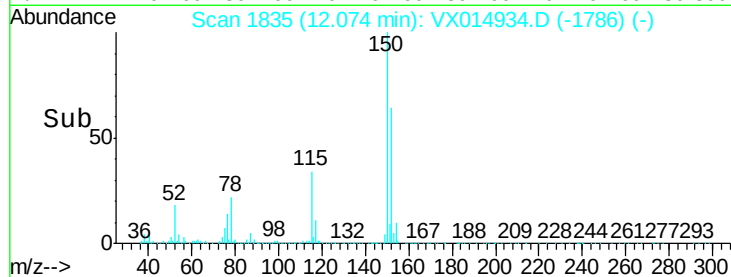
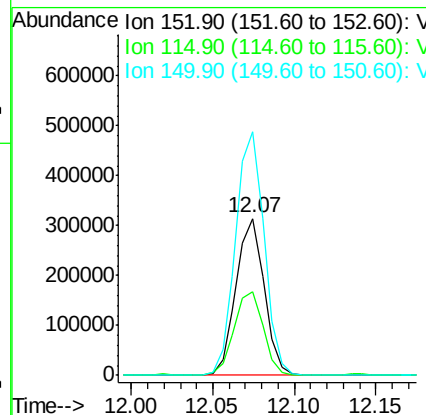
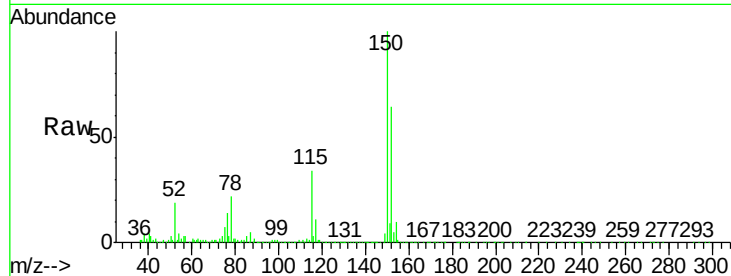


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

Instrument :  
MSVOA\_X  
ClientSampleId :  
OD-COMPD

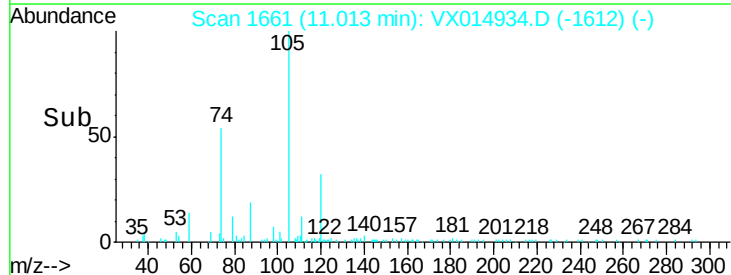
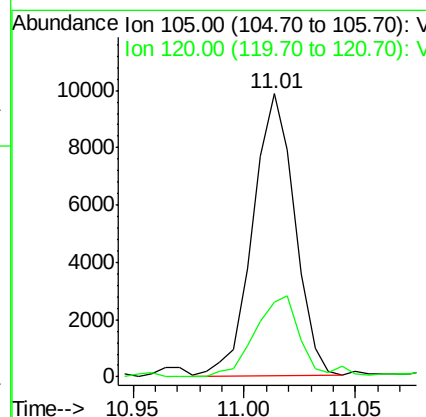
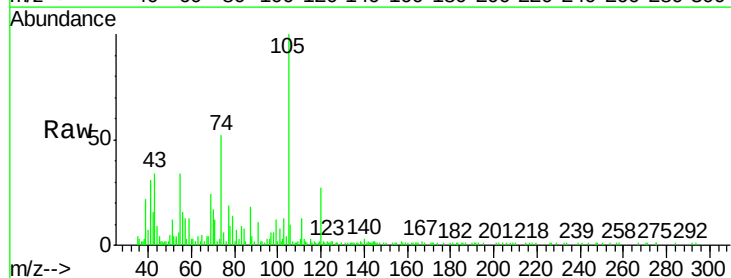
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.0  | 38.6  | 116.0 |
| 150     | 157.3 | 0.0   | 349.0 |

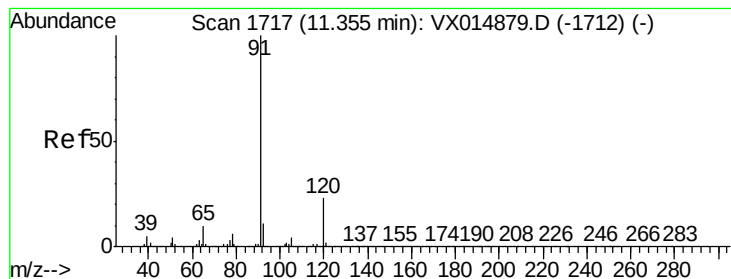


#73

Isopropylbenzene  
Concen: 0.545 ug/l  
RT: 11.01 min Scan# 1661  
Delta R.T. 0.00 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 30.2  | 13.6  | 40.8  |





#78

n-propylbenzene

Concen: 1.367 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX014934.D

Acq: 12 Feb 2020 18:24

Instrument :

MSVOA\_X

ClientSampleId :

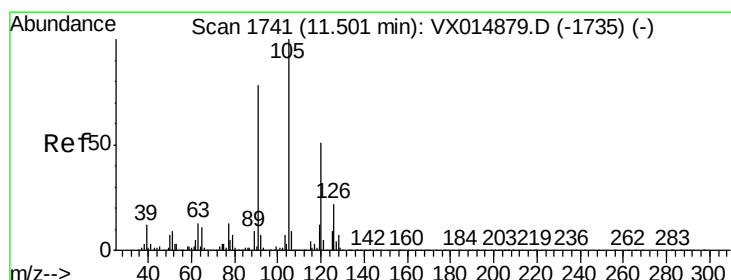
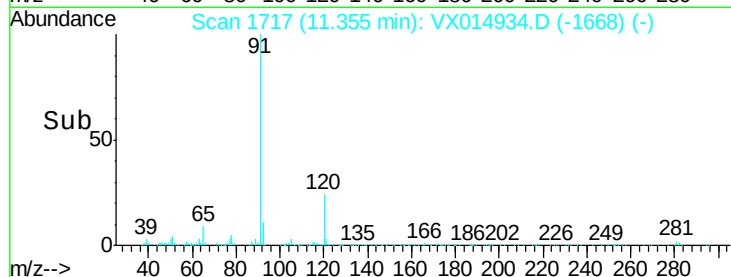
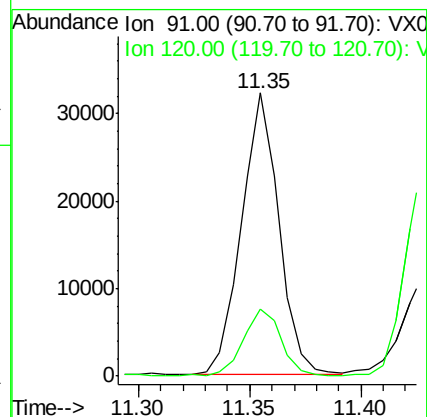
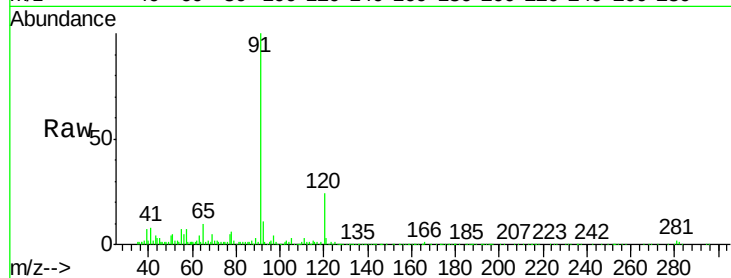
OD-COMPD

Tot Ion: 91 Resp: 37487

Ion Ratio Lower Upper

91 100

120 24.5 11.8 35.4



#80

1,3,5-Trimethylbenzene

Concen: 2.141 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX014934.D

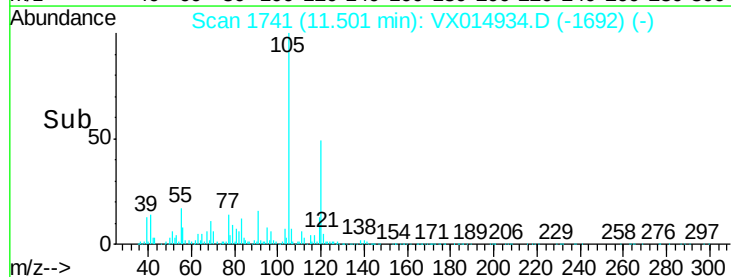
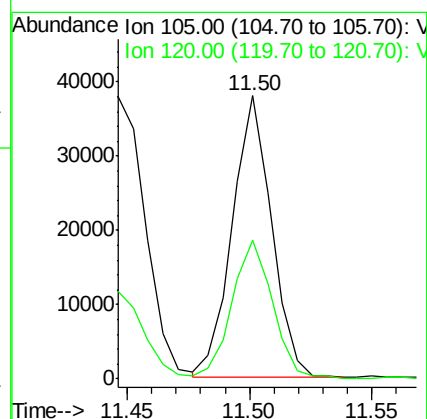
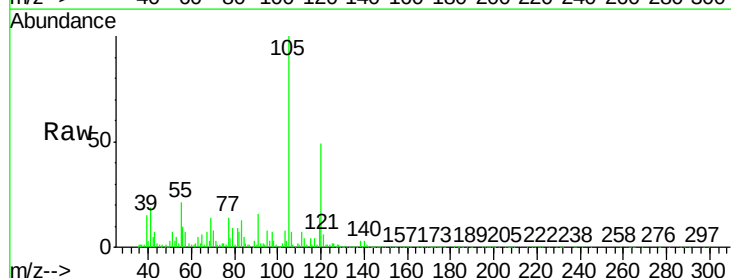
Acq: 12 Feb 2020 18:24

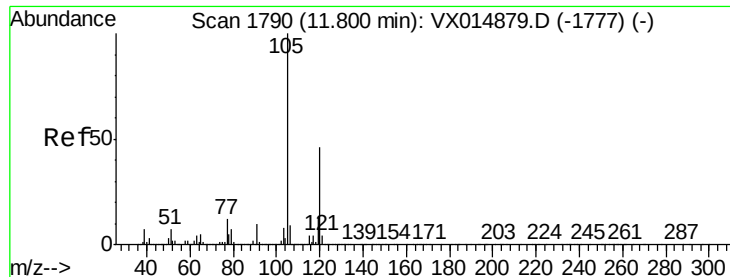
Tgt Ion: 105 Resp: 42434

Ion Ratio Lower Upper

105 100

120 51.1 25.6 76.6

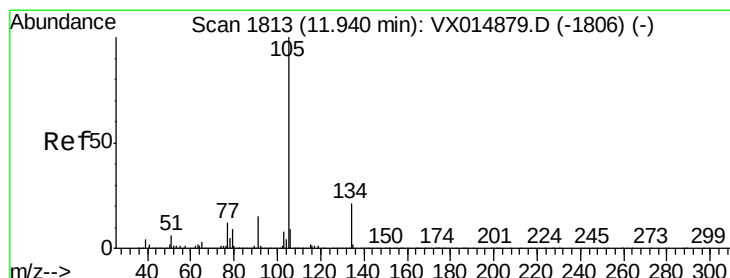
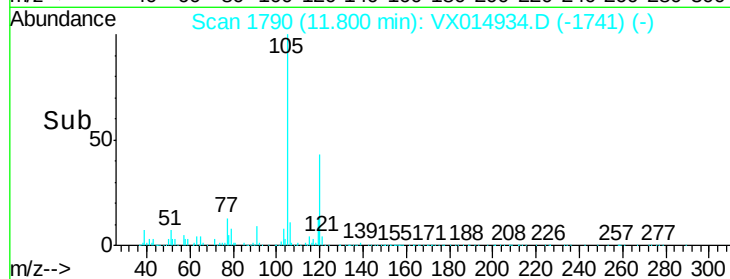
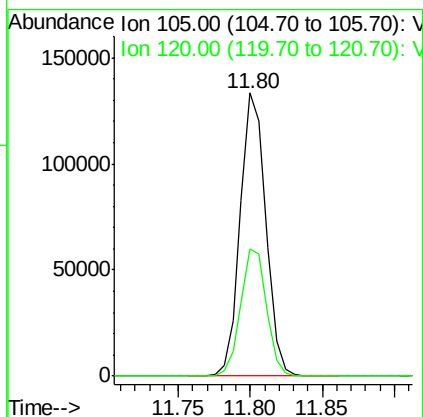
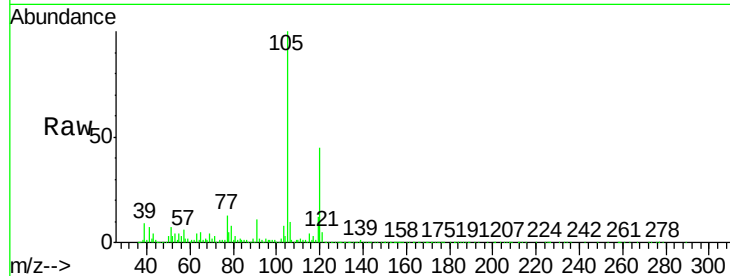




#84  
 1,2,4-Trimethylbenzene  
 Concen: 8.246 ug/l  
 RT: 11.80 min Scan# 1790  
 Delta R.T. 0.00 min  
 Lab File: VX014934.D  
 Acq: 12 Feb 2020 18:24

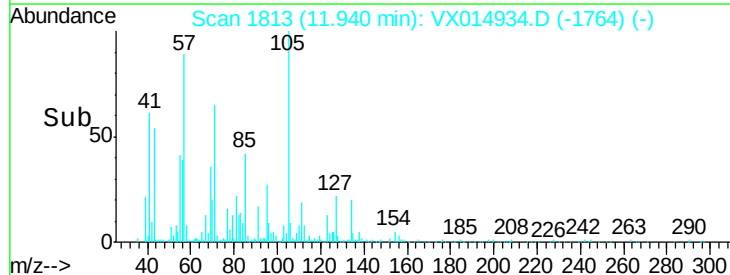
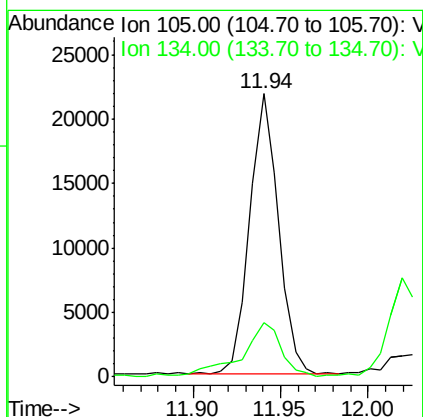
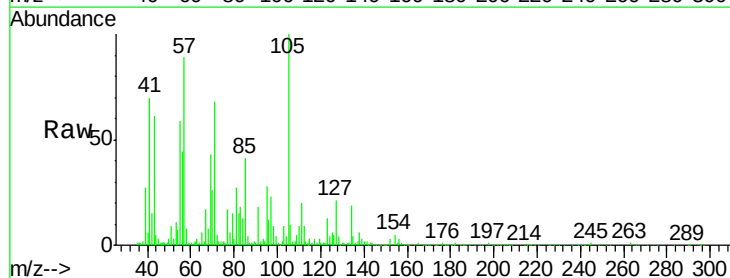
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 OD-COMPD

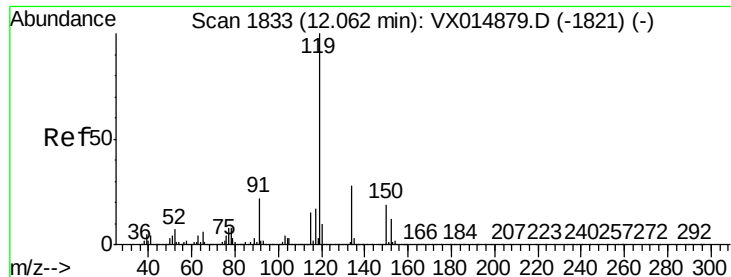
Tot Ion:105 Resp: 164687  
 Ion Ratio Lower Upper  
 105 100  
 120 45.6 23.0 69.0



#85  
 sec-Butylbenzene  
 Concen: 1.069 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. 0.00 min  
 Lab File: VX014934.D  
 Acq: 12 Feb 2020 18:24

Tgt Ion:105 Resp: 24924  
 Ion Ratio Lower Upper  
 105 100  
 134 26.9 10.6 31.8

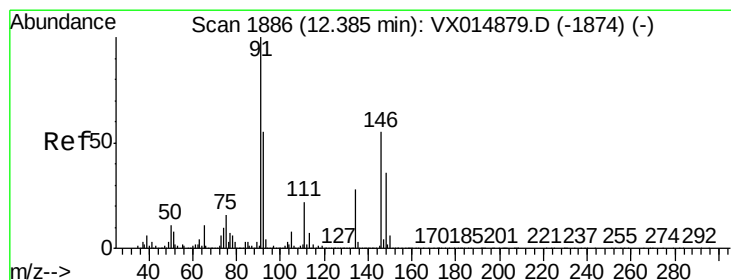
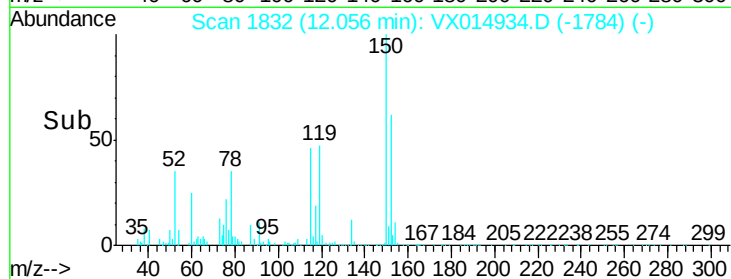
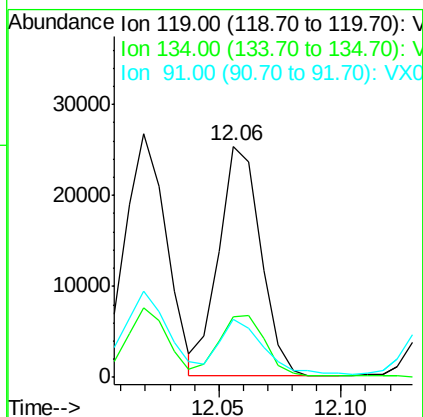
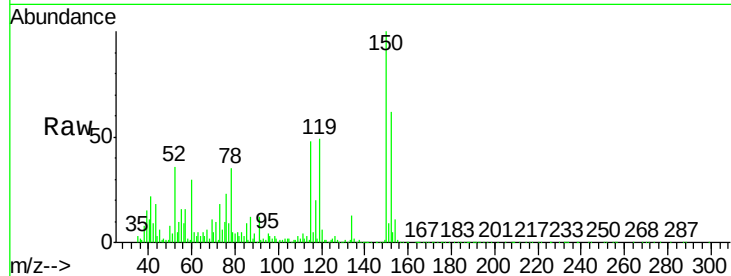




#86  
p-Isopropyltoluene  
Concen: 1.381 ug/l  
RT: 12.06 min Scan# 1832  
Delta R.T. -0.01 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

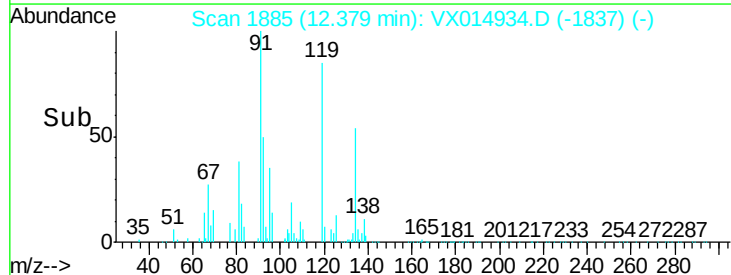
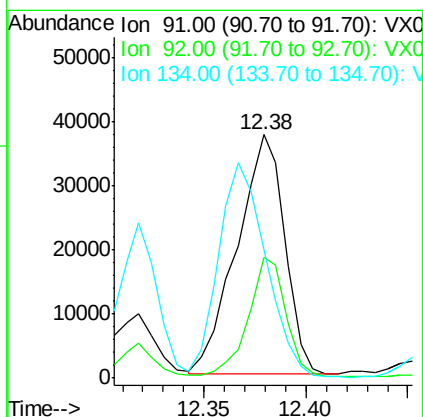
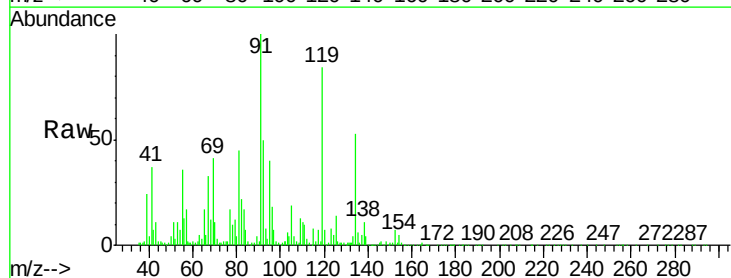
Instrument :  
MSVOA\_X  
ClientSampled :  
OD-COMPDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 30.2  | 13.5  | 40.5  |
| 91      | 24.4  | 11.4  | 34.1  |

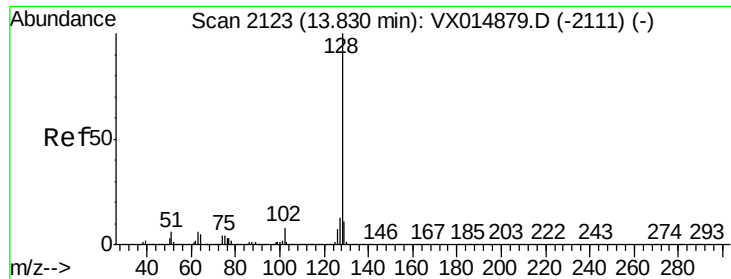


#89  
n-Butylbenzene  
Concen: 3.127 ug/l  
RT: 12.38 min Scan# 1885  
Delta R.T. -0.01 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 39.3  | 27.3  | 81.8  |
| 134     | 88.0  | 13.8  | 41.4  |







#95  
Naphthalene  
Concen: 3.114 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. 0.00 min  
Lab File: VX014934.D  
Acq: 12 Feb 2020 18:24

Instrument :  
MSVOA\_X  
ClientSampleId :  
OD-COMPDL

Tot Ion:128 Resp: 71184  
Ion Ratio Lower Upper  
128 100  
127 19.2 10.4 15.6#  
129 17.8 8.6 13.0#

